

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/S	of Transmittal of International Search Report
D 2398 PCT	ACTION	220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 00/05922	26/06/2000	25/06/1999
Applicant		
UNTUEDOTTÄT TÜDTOU 04 01		
UNIVERSITÄT ZÜRICH et al.		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth	hority and is transmitted to the applicant
door. all give values (S. A. Sopy to Somig and	mismilled to the international buleau.	
This International Search Report consists	of a total of6 sheets.	
l [37]	a copy of each prior art document cited in this	report
Basis of the report		
a. With regard to the language, the language in which it was filed, unli	international search was carried out on the bases otherwise indicated under this item.	sis of the international application in the
the international search wa Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	he international application furnished to this
b. With regard to any nucleotide and	d/or amino acid sequence disclosed in the ir	nternational application, the international search
was carried out on the basis of the	e sequence listing : nal application in written form.	
	mai application in written form. rnational application in computer readable form	
	this Authority in written form.	n.
l e e e e e e e e e e e e e e e e e e e	this Authority in computer readble form.	
the statement that the sub-	esequently furnished written sequence listing do s filed has been furnished.	loes not go beyond the disclosure in the
X the statement that the info		s identical to the written sequence listing has been
furnished		
2. X Certain claims were foun	nd unsearchable (See Box I).	
3. Unity of invention is lack		
4. With regard to the title,		
the text is approved as sub	omitted by the applicant.	
• —	ned by this Authority to read as follows:	
HETERO-ASSOCIATING COI	LED-COIL PEPTIDES AND SCREEN	NING METHOD THEREFOR
5. With regard to the abstract,		
the text is approved as sub the text has been establish within one month from the	omitted by the applicant. ned, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep	ly as it appears in Box III. The applicant may,
6. The figure of the drawings to be published.		ort, submit comments to this Authority.
as suggested by the applic		Name of the figures
because the applicant faile		None of the figures.
=	characterizes the invention.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claim 8, and claims 10-13 and 15-22 in as far as they pertain to claim 8, relate to a polypeptide defined by reference to a desirable characteristic or property, namely that it can be obtained by the method of claim 7.

The claims cover all polypeptides having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such polypeptides. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the polypeptides comprising domains as defined in claims 5 and/or 6, and in the broader sense those that fall under the general fomulae of claim 1(a) and (b).

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



Interna Application No PCT

00/05922 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/10 G01N G01N33/68 C07K14/00 A61K38/17 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N G01N C07K A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. WO 98 34120 A (PELLETIER JOELLE NINA ; REMY 1 - 22INGRID (CA); UNIV MONTREAL (CA); MICHN) 6 August 1998 (1998-08-06) cited in the application the whole document "INVESTIGATION OF YU Y ET AL: 1-22 ELECTROSTATIC INTERACTIONS IN TWO-STRANDED COILED-COILS THROUGH RESIDUE SHUFFLING" BIOPHYSICAL CHEMISTRY, AMSTERDAM, NL, vol. 59, 16 April 1996 (1996-04-16), pages 299-314, XP000971324 cited in the application the whole document

X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
4 January 2001 Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	18/01/2001 Authorized officer Smalt, R

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	:	
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	ARNDT K M ET AL: "In-vivo selection of interacting peptide libraries by selectively-infective phages." FASEB JOURNAL, vol. 11, no. 9, 1997, page A1327 XP002156485 17th International Congress of Biochemistry and Molecular Biology in conjunction with the Annual Meeting of the		
	American Society for Biochemistry and Molecular Biology; San Francisco, California, USA; August 24-29, 1997 ISSN: 0892-6638 the whole document		
A	O'SHEA E K ET AL: "PEPTIDE 'VELCRO*': DESIGN OF A HETERODIMERIC COILED COIL" CURRENT BIOLOGY, GB, CURRENT SCIENCE,, vol. 3, no. 10, 1993, pages 658-667, XP000653001 ISSN: 0960-9822 cited in the application the whole document		
A	HODGES R S: "DE NOVO DESIGN OF ALPHA-HELICAL PROTEINS: BASIC RESEARCH TO MEDICALAPPLICATIONS" BIOCHEMISTRY AND CELL BIOLOGY. BIOCHIMIE ET BIOLOGIE CELLULAIRE, XX, XX, vol. 74, no. 2, 1996, pages 133-154, XP000605834 ISSN: 0829-8211 cited in the application the whole document		
A	JOHN MATTHIAS ET AL: "Two pairs of oppositely charged amino acids from Jun and Fos confer heterodimerization to GCN4 leucine zipper." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 269, no. 23, 1994, pages 16247-16253, XP002156486 ISSN: 0021-9258 cited in the application the whole document		
Α	O'SHEA E K ET AL: "MECHANISM OF SPECIFICITY IN THE FOS-JUN ONCOPROTEIN HETERODIMER" CELL, vol. 68, no. 4, 1992, pages 699-708, XP002156487 ISSN: 0092-8674 cited in the application the whole document		

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Internal Application No
PCT 00/05922

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Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Calegory	itation of document, with indication,where appropriate, of the relevant passages		Relevant to claim No.
P,X	PELLETIER, J.N. ET AL.: "An in vivo library-versus-library selection of optimized protein-protein interactions." NATURE BIOTECHNOLOGY, vol. 17, July 1999 (1999-07), pages 683-90, XP002156488 the whole document		1-19,22
Ρ,Χ	ARNDT KATJA M ET AL: "A heterodimeric coiled-coil peptide pair selected in vivo from a designed library-versus-library ensemble."		1-19,22
	JOURNAL OF MOLECULAR BIOLOGY, vol. 295, no. 3,		
	21 January 2000 (2000-01-21), pages 627-639, XP002156489 ISSN: 0022-2836 the whole document		
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patent family members

PCT Application No

Patent document cited in search repor	t	Publication date		atent family member(s)	Publication date
WO 9834120	A	06-08-1998	CA AU EP	2196496 A 5850598 A 0966685 A	31-07-1998 25-08-1998 29-12-1999